RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

| Application Serial Number: | |
|----------------------------|------------|
| Source: | TFWP. |
| Date Processed by STIC: | 01/11/2007 |
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T FWD

RAW SEQUENCE LISTING DATE: 01/11/2007 PATENT APPLICATION: US/10/567,731 TIME: 10:56:49

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\01112007\J567731.raw

5 <120> TITLE OF INVENTION: Method of decomposing dsRNA and synthesizing RNA

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C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/567,731
C--> 9 <141> CURRENT FILING DATE: 2006-02-10
     9 <150> PRIOR APPLICATION NUMBER: JP 2003-293553
     10 <151> PRIOR FILING DATE: 2003-08-14
     12 <150> PRIOR APPLICATION NUMBER: JP 2003-342126
     13 <151> PRIOR FILING DATE: 2003-09-30
     15 <150> PRIOR APPLICATION NUMBER: JP 2003-409639
     16 <151> PRIOR FILING DATE: 2003-12-08
     18 <150> PRIOR APPLICATION NUMBER: JP 2004-086129
     19 <151> PRIOR FILING DATE: 2004-03-24
     21 <160> NUMBER OF SEQ ID NOS: 27
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    40 Gln Gln Glu Ala Ile His Asp Asn Ile Tyr Thr Pro Arg Lys Tyr Gln
    41
    44 Val Glu Leu Leu Glu Ala Ala Leu Asp His Asn Thr Ile Val Cys Leu
    48 Asn Thr Gly Ser Gly Lys Thr Phe Ile Ala Ser Thr Thr Leu Leu Lys
                           70
    52 Ser Cys Leu Tyr Leu Asp Leu Gly Glu Thr Ser Ala Arg Asn Gly Lys
                                           90
    56 Arg Thr Val Phe Leu Val Asn Ser Ala Asn Gln Val Ala Gln Gln Val
                   100
                                       105
    60 Ser Ala Val Arg Thr His Ser Asp Leu Lys Val Gly Glu Tyr Ser Asn
                                   120
    64 Leu Glu Val Asn Ala Ser Trp Thr Lys Glu Arg Trp Asn Gln Glu Phe
                               135
                                                   140
    68 Thr Lys His Gln Val Leu Ile Met Thr Cys Tyr Val Ala Leu Asn Val
                           150
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    76 Asp Glu Cys His Leu Ala Ile Leu Asp His Pro Tyr Arg Glu Phe Met
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3 <110> APPLICANT: TAKARA BIO INC.

7 <130> FILE REFERENCE: 664674

RAW SEQUENCE LISTING DATE: 01/11/2007 PATENT APPLICATION: US/10/567,731 TIME: 10:56:49

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| | 77 | | | | 180 | | | | | 185 | | | | | 100 | | |
| | 80 |) Lys | Lei | ı Cys | Glu | ı Ile | Cvs | Pro | Ser | Cvs | Dro | 7~~ | т1. | T | 190 | _ | Thr |
| | | | | | | | | | | | | | | | | | |
| | 84 | Ala | Ser | Ile | . Leu | Asn | Glv | Lvs | Trn | λαη | Dwa | 01 | | 205 | | _ | |
| | 85 | i | 210 |) | | | 0-7 | 215 | тър | Asp | PIO | GIU | Asp | Leu | Glu | Glu | Lys |
| | 88 | Phe | Glr | Lvs | Len | Glu | Lve | T10 | T 0 | T | _ | _ | 220 | | | | |
| | 89 | 225 | | | | Glu | 230 | TIE | ьeu | Lys | Ser | Asn | Ala | Glu | Thr | Ala | Thr |
| | | | | | | | | | | | | | | | | | |
| | 93 | | | vai | vai | Leu 245 | Asp | Arg | ıyr | Thr | Ser | Gln | Pro | Cys | Glu | Ile | Val |
| | | | | | | | | | | | | | | | | | |
| | 97 | | 1100 | Cys | GTA | Pro | Pne | Thr | Asp | Arg | Ser | Gly | Leu | Tyr | Glu | Arg | Leu |
| | | | | | | | | | | | | | | | | | |
| | 10 | о <u>п</u> е | u Me | C G1 | и те | u GI | ı GIU | ı Ala | ı Let | ı Asr | ı Phe | ∍ Il∈ | Asr | ı Ası | Cy | s Ası | n Ile |
| | | | | | | | | | | | | | | | | | |
| | 10 | * <i>5</i> e | ı va | 1 H1. | s se | r Lys | 3 Glu | ı Arg | , Asp | Ser | Thi | : Leu | Ile | e Ser | Lys | s Glı | n Ile |
| | | | | | | | | | | | | | | | | | |
| | 100 | о те | u se | r As | р Су | s Arg | , Ala | ı Val | Leu | ı Val | . Val | Leu | Gly | Pro | Tr | Cvs | s Ala |
| | | | | | | | | | | | | | | | | | |
| | 11. | Z AS] | о гу | s Val | l Ala | a Gly | Met | Met | Val | Arg | Glu | ı Leu | Gln | Lvs | י ער | - Tla | 320 Lys |
| | | | | | | | | | | | | | | | | | |
| | 116 | His | s Gl | ı Glı | ı Glı | ı Glu | Leu | His | Arg | Lys | Phe | Leu | Len | Phe | Thr | . 70. | Thr |
| | | | | | | | | | | | | | | | | | |
| | 120 |) Phe | e Lei | ı Arç | J Lys | 3 Ile | His | Ala | Leu | Cvs | Glu | Glu | Hic | Dho | 550 | Dro | Ala |
| | | | | | , | | | | 4611 | | | | | ~ ~ - | | | |
| | 124 | Ser | : Let | ı Asp | Leu | Lys | Phe | Val | Thr | Pro | Lvs | Val | Tlo | 7110 | т | T | Glu |
| | | | | | | | | | | | | | | | | | |
| | 128 | Ile | : Lei | 1 Arg | Lys | Tyr | Lys | Pro | Tvr | Glu | Δνα | Hic | 200 | Dh - | ~ 1 | _ | |
| | | | | | | | | | | | | | | | | | |
| | 132 | Glu | Trp | Tyr | Asn | Asn 405 | Ara | Asn | Gln | Acn | Λαn | 333 | 77-7 | . | _ | _ | 400 |
| | | | | | | | | | | | | | | | | | |
| | 136 | Ser | Glu | Asp | Asp | Asp | Glu | Asn | Glu | C1 | 410 | ~1 | ~1 | _ | | 415 | |
| | 137 | | | _ | 420 | | | 1101 | Oru | 425 | TIG | GIU | GIU | гĀг | | Lys | Pro |
| | 140 | Glu | Thr | Asn | Phe | Pro | Ser | Dro | Dho | #25 | 3 | ~ 3 | _ | | 430 | | |
| | 141 | | | 435 | | | DCI | FIU | 440 | inr | Asn | TIE | Leu | | Gly | Ile | Ile |
| | 144 | Phe | Val | | | Ara | Tarr | Thr | 71. | T7_ 1 | | _ | _ | 445 | | | |
| | 145 | | 450 | | 9 | Arg | TYL | 455 | Ala | vaı | Val | Leu | Asn | Arg | Leu | Ile | Lys |
| | 148 | Glu | | | Lve | Gln | 7 05 | 455 | ~ 1 | _ | | | 460 | | | | |
| | 149 | 465 | | | Lys | Gln | 470 | PIO | GIU | Leu | Ala | Tyr | Ile | Ser | Ser | Asn | Phe |
| | | | | | | | | | | | | | | | | | |
| | 153 | | | Gry | 1115 | Gly | тте | GIA | ьуs | Asn | Gln | Pro | Arg | Asn | Asn | Thr | Met |
| | | | | | | | | | | | | | | | | | |
| | 157 | Oru | лта | GIU | FILE | Arg | ьуs | GIn | Glu | Glu | Val | Leu | Arg | Lys | Phe | Arg | Ala |
| | | | | | | | | | | | | | | | | | |
| | 161 | HIP | Gru | IIII | Asn | Leu | Leu | Ile | Ala | Thr | Ser | Ile | Val | Glu | Glu | Glv | Val |
| | | | | | | | | | | | | | | | | | |
| | 165 | Asp | TTE | Pro | ьуѕ | Cys | Asn | Leu | Val | Val . | Arg | Phe . | Asp | Leu | Pro | Thr | G] 11 |
| | | | | | | | | 717 | | | | | F 4 A | | | | |
| | 100 | Tyr | Arg | ser | Tyr | Val | Gln | Ser : | Lys (| Gly. | Arg | Ala . | Arq | Ala | Pro | Tle | Ser |
| • | | | | | | | 22 27 1.1 | | | | | | | | | | |
| | 172 | Asn | Tyr | Ile | Met | Leu 2 | Ala i | Asp ' | Thr A | Asp : | Lys | Ile : | Lys | Ser | Phe | Glu | Glu |
| | 173 | | | | | 565 | | | | - ! | 570 | | | | | 575 | JIU |
| | | | | | | | | | | | - | | | | | 213 | |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/567,731

DATE: 01/11/2007
TIME: 10:56:49

| 17 | 76 As | sp Le | eu Lv | /s Th | r Tv | r Lv | 's Al | а ті | A (1) | ,, T- | 1 | | _ | _ | _ | s Cys |
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| | | p As | | | l Ph | e Pr | o Pr | 60 Tv | u r Va |] I.e | ווכ מו | o Dr | 60 2 7 9 | 5 20 20 40 40 40 40 40 40 40 40 40 40 40 40 40 | ~ ~1 | y Gly |
| | _ | • | | | | | | ~ | | | | ~~ | ^ | | | |
| 18 | 8 Pr 9 62 | O Ai | rg Va | l Th | r Il | e As | n Th | r Al | a Il | e G] | y Hi | s Il | e As | n Ar | д Ту | r Cys |
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| 19 | 6 Th | r Ar | g Gl | u Le | u Pro | o As | p Gl | y Th | r Ph | e Ty | r Se | r Thi | r Lei | 11 Tzz | 65 ص. ت | u Pro |
| | • | | | 00 | U | | | | 66 | Ε. | | | | | _ | |
| 20 | 1 0 II | e As | n Se 67 | r Pro | o Lei | ı Ar | g Al | a Se | r Il | e Va | 1 G1 | y Pro | o Pro | o Met | Se | r Cys |
| | _ | | Ų / | J | | | | 681 | () | | | | | _ | | s Leu |
| | _ | 0,0 | • | | | | 69: | 5 | | | | 700 | ` | | | |
| 20 | 8 Hi | s Ly | s Il | e Gly | / Gli | ı Leı | ı Ası | Ası | o His | s Le | u Mei | t Pro | v Val | l Glv | z Taze | s Glu |
| | | _ | | | | /10 |) | | | | 711 | = | | | | |
| 213 | 2 111. 3 | L va | т гру | з Туг | 725 GIU | ı Glu | ı Glı | ı Leı | ı Ası |) Le | u Hi | s Asp | Gli | ı Glı | ı Glı | 720 1 Thr |
| | | r Va | l Pro | o Glv | /25 | , i Pro | Gla | 7 501 | · The | 73 | 0 0 7 ma | | | _ | 73 | F Pro |
| | | | | 740 | , | | | | 7/4 | • | | | | | | |
| 220 | Lys | s Al | a Ile | Pro | Glu | Cys | Let | ı Arg | J Asp | Se: | r Tyı | Pro | Arc | Pro | Ası | Gln |
| | | | , , , | , | | | | 760 |) | | | | 700 | | | |
| 225 | ; | 77 |)) | . neu | ıyı | vai | 775 | : GLY | Met | : Va | l Leu | Thr | Thr | Pro | Let | ı Pro |
| 228 | Asp | Glı | ı Lev | ı Asn | Phe | Arg | Arq | , Arq | Lvs | Lei | ו ייי | 780 Pro | Pro | . Gl., | 7 ~~ | Thr |
| | | | | | | 790 | | | | | 705 | | | | | |
| 232 | Thr | Arg | y Cys | Phe | Gly | Ile | Leu | Thr | Ala | Lys | s Pro | Ile | Pro | Gln | Ile | 800 Pro |
| | | | | | 000 | | | | | 2217 | 1 | | | | ~ | |
| , | | | | 020 | | | | | 825 | | | | | 0 2 0 | | |
| 240 | Leu | Lys | Lys | Ser | Gly | Phe | Met | Leu | Ser | Leu | ı Gln | Met | Leu | 830 Glu | T.e.ii | Tle |
| | | | 0.0.0 | | | | | 840 | | | | | 045 | | | |
| 245 | 1111 | 850 | ьeu ' | His | GIn | Tyr | Ile | Phe | Ser | His | Ile | | Arg | Leu | Glu | Lys |
| 248 | Pro | | | Glu | Phe | Lvs | 855 Pro | Thr | Δen | 7.1.5 | 7 an | 860 | n 1 - | | _ | |
| | | | | | | 0/1/ | | | | | 075 | | | | | |
| 252 | Leu | Pro | Leu | Asn | Val | Val | Asn | Asp | Ser | Ser | Thr | Leu | Asp | Ile | Asp | Phe |
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| 257 | 275 | 1110 | Het | Glu 900 | Asp | тте | Glu | Lys | Ser | Glu | Ala | Arg | Ile | | Ile | Pro |
| 260 | Ser | Thr | Lys | Tyr | Thr | Lys | Glu | Thr | 905 Pro | Phe | Val | Dhe | Tara | 910 | | 3 |
| | | | 713 | | | | | 920 | | | | | 025 | | | |
| 264 265 | Tyr | Gln | Asp | Ala | Val | Ile | Ile | Pro | Arg | Tyr | Arg | Asn | Phe | Asp | Gln | Pro |
| | | | | | | | 935 | | | | | 940 | | | | |
| 269 | 945 | 9 | 1116 | Tyr | vai | 950 | Asp | val | Tyr | Thr | Asp | Leu | Thr | Pro | Leu | |
| | | Phe | Pro | Ser | Pro | Glu | Tyr | Glu | Thr | Phe | 955 Ala | Glu | ጥ፣ | Тчг∽ | T | 960 |
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/567,731

DATE: 01/11/2007
TIME: 10:56:49

| 273 | | 965 | | | | 9 | 970 | | | | a, | 75 |
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| 276 Lys T | r Asn I | Leu Asp | Leu | Thr i | Asn T | en Z | Asn (| lln E | ro Le |))) T c | J | 75 m W-1 |
| 277 | 9 | 980 | | | c | 985 | | J_11 | TO De | 99 | | sp var |
| 280 Asp Hi | s Thr S | Ser Ser | Ara | Leu / | Asn | Len | T.e.11 | Thr | Dro 7 |) | 77. | T |
| 281 | 995 | | 3 | | 1000 | cu | пси | TIIL | | | HIS | Leu Asn |
| 284 Gln Ly | | Lvs Ala | a T.e.i | Dro. | Tou | | | - 77- | 43. I | .005 | _ | |
| 285 10 | 10 | Lyb Mic | и шес | 1019 | - ren | ser | ser | Ala | | | Arc | J Lys |
| 288 Ala Ly | | Glu Sor | . T.O. | | | | ~ | | 1020 |) | | |
| | 25 | Glu Sei | . цец | GIN | Asn | гга | GIT | ı Ile | | | Pro | Glu |
| | | T10 1744 | . D | 1030 | , _ | | | | 1035 | i | | |
| 292 Leu Cy 293 10 | 40 | TIE UIS | Pro |) IIe | Pro | Ala | Ser | Leu | Trp | Arg | Lys | : Ala |
| | | D C | | 1045 | | | | | 1050 | 1 | | |
| 296 Val Cy 297 10 | ь теп | Pro Sei | : 11e | Leu | Tyr | Arg | Leu | His | Cys | Leu | Leu | Thr |
| | 55 | | | 1060 |) | | | | 1065 | | | |
| 300 Ala Gl | u Giu | Leu Arg | Ala | Gln | Thr | Ala | Ser | Asp | Ala | Gly | Val | Gly |
| 301 10 | 70 | | | 1075 | , | | | | 1080 | | | |
| 304 Val Ar | g Ser | Leu Pro | Ala | Asp | Phe | Arg | Tyr | Pro | Asn | Leu | Asp | Phe |
| | 85 | | | 1090 | | | | | 1095 | | _ | |
| 308 Gly Tr | p Lys | Lys Ser | Ile | Asp | Ser | Lys | Ser | Phe | Ile | Ser | Ile | Ser |
| 203 11 | 00 | | | 1105 | | | | | 1110 | | | |
| 312 Asn Se | r Ser | Ser Ala | Glu | Asn | Asp | Asn | Tyr | Cys | Lys | His | Ser | Thr |
| 272 11 | 10 | | | 1120 | | | | | 1125 | | | |
| 316 Ile Va | l Pro | Glu Asn | Ala | Ala | His | Gln | Gly | Ala | Asn | Ara | Thr | Ser . |
| 21/ 11 | 30 . | | | 1135 | | | | | 1140 | | | |
| 320 Ser Le | ı Glu | Asn His | Asp | Gln | Met | Ser | Val | Asn | Cvs | Ara | Thr | T.e.11 |
| 221 11 | ±5 | | | 1150 | | | | | 1166 | | | |
| 324 Leu Se | Glu | Ser Pro | Gly | Lys | Leu | His | Val | Glu | Val | Ser | Δla | Asn |
| 222 11 | 0 | | | 1165 | | | | | 1170 | | | |
| 328 Leu Th: | Ala : | Ile Asn | Gly | Leu | Ser | Tvr | Asn | Gln | Asn | T.e.11 | Δla | λen |
| 329 11 | 75 | | - | 1180 | | 2 | | | 1185 | шса | AIG | ASII |
| 332 Gly Se: | Tyr A | Asp Leu | Ala | Asn | Ara | Asp | Phe | Cvs | Gln | Glaz | λen | Cln |
| 333 119 | 0 | _ | | 1195 | , | | | 0,75 | 1200 | OLY | ASII | GIII |
| 336 Leu Ası | Tyr | Tyr Lys | Gln | Glu | Ile | Pro | Val | Gln | Pro | Thr | Thr | Co |
| 337 120 | 15 | | | 1210 | | | | 0111 | 1215 | 1111 | 1111 | ser |
| 340 Tyr Sei | Ile | 3ln Asn | Leu | | | Tvr | Glu | Δan | Gln | Dro | Cl. | Desc |
| 341 122 | 0 | | | 1225 | | -1- | Olu | ASII | 1230 | PIO | GIII | PIO |
| 344 Ser Asp | Glu | Cvs Thr | Leu | Len | Ser | Δen | Larg | Па гж | 1230 | 7 | a 1 | |
| 345 123 | 5 | • | | 1240 | 001 | 11011 | цуз | TYL | | Asp | GIY | Asn |
| 348 Ala Asr | | Ser Thr | Ser | | | Sar | Dro | ₹7.5 T | 1245 | 77. | **- 7 | •• |
| 349 125 | 0 | | | 1255 | Gry | Ser | FIO | vai | | | vaı | Met |
| 352 Pro Gly | | hr Asp | Thr | Tle | Gln | 17 n 1 | T 011 | T | 1260 | | | _ |
| 353 126 | 5 | p | **** | 1270 | GIII | vaı | ьец | ьys | GIY | Arg | Met | Asp |
| 356 Ser Glu | | er Pro | Ser | | G1 | Па х | Com | 0 | 1275 | m) | _ | |
| 357 128 | 0 | | DGI | 1285 | GIA | TÀL | ser | | | Thr | Leu | Gly |
| 360 Pro Asn | | lv Lau | | | C1- | 7 T - | T . | m1. | 1290 | _ | _ | _ |
| 361 129 | | ly Leu | 116 | 1200 | GIII | нта | ьeu | | | Ser | Asn | Ala |
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| 364 Ser Asp 365 131 | u Gila | ne Asn | ьeu | GIU | Arg | ьeu | GLu | | | Gly | Asp | Ser |
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| 368 Phe Leu 369 132 | г пур н | TP WIG | | | Thr | Tyr | Leu | Phe | Cys | Thr | Tyr | Pro |
| 132 | | | • | 1330 | | | | | 1335 | | | |

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/567,731

DATE: 01/11/2007 TIME: 10:56:49

| 37 37 | 72 As | p Al | a H: | is Gl | u Gl | y Ar | g Leu | ı Se | r Ty | r Me | t Ar | g Ser | Ly | s Ly | rs Va | al |
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| 37 | 7 | 13! | ո Հչ 55 | S AS | п ге | u Ty: | r Arg | Le | u Gl | у Lу | s Ly | s Lys | Gl | y Le | u Pr | : 0 |
| | | | | et Va | l Va | 1 90 | 136 | U Dh | - 7- | - | | 136 Val | 5 | | | |
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| 38 | 4 Pr | o Pro | o G1 | у Ту | r Va | l Val | l Asn | ر دای | n Ac | n I. | a C. | 138 r Asn | 0 | _ | _ | |
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| 38 | 8 Tr | p Glı | ı Ly | s As | p Gl | u Met | Thr | Ly | s As | p Cv: | s Met | 139! Leu | כ זא | 2 A a | ~ ~1 | |
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| 39 | 2 Ly | s Leu | ı As | p Gl | u Ası | р Туг | Glu | Glı | u Gl | u Ası | o Gli | 1410 Glu | Gl. | n Gl | 11 50 | r |
| | - | | | | | | 141 | " | | | | | _ | | | |
| 39 | ь те. 2 | u Met | Tr | p Ar | g Ala | a Pro | Lys | Glı | ı Glı | u Ala | a Asp | Tyr Tyr | Gl | u As | p As | מ |
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| 40 | 0 PIII 1 | 2 Leu 144 | r GT. | u Tyi | r Asr | Gln | Glu | His | s Ile | e Arc | J Ph∈ | 1440 11e | Asj | p Ası | n Me | t |
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| 40 | 5 | 146 | n Gi | у зет | GIZ | / Ата | Phe | Val | L Lys | 5 Lys | : Ile | Ser | Let | ı Se | r Pro | 0 |
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| 416 | Asp | Tyr | Sei | r Ser | Trp | Asp | Ala | Met | Cvs | : ጥህን | T.011 | 1500 Asp | Dwa | | | |
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| 420 | Ala | . Val | Glı | ı Glu | Asp | Asp | Phe | Val | Val | Glv | Phe | Trp | Δer | Dro | | _ |
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| | | Glu | | ı Cys | Gly | Val | Asp | Thr | Gly | Lys | Gln | Ser | Ile | Ser | · | _ |
| 425 | | 153 | | | | | | | | | | | | | | |
| 429 | Asp | 1550 | Hls | Thr | Glu | Gln | Cys | Ile | Ala | Asp | Lys | 1545 Ser | Ile | Ala | Asp |) |
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| 433 | Cys | 1569 | GIU | AIA | ьeu | Leu | GIY | Cys | Tyr | Leu | Thr | 1560 Ser | Cys | Gly | Glu | L |
| | | | , | | | | 15/11 | | | | | 1575 Leu | | | | |
| 437 | , | 1580 |) | . 0111 | пси | FIIE | 1585 | Cys | ser | Leu | Gly | | Lys | Val | Leu | l |
| 440 | Pro | | | Lvs | Ara | Thr | Asn | Δrα | Gl., | T | 7.7 | 1590 Leu | _ | _ | | |
| 7 T T | | T030 | , | | | | 1600 | | | | | 1.00 | _ | Pro | | |
| 444 | Arg | Glu | Asn | Phe | Asn | Ser | Gln | Gln | Lvs | Δsn | T.011 | 1605 Ser | 17-1 | C | ~ | |
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| 448 | Ala | Ala | Ala | Ser | Val | Ala | Ser | Ser | Arq | Ser | Ser | Val | T. e. 11 | Larc | λαν | |
| | | | | | | | T030 | | | | | 1635 | 11Cu | nys | Asp | |
| | Ser | Glu | _ | Gly | Cys | Leu | Lys | Ile | Pro | Pro | Arg | | Met | Phe | Asp | |
| 453 | TT | 1640 | | | | | 1645 | | | | | 1650 | | | -1.55 | |
| ±56 457 | HIS | Pro | _ | Ala | Asp | Lys | Thr | Leu | Asn | His | Leu | Ile | Ser | Gly | Phe | |
| | Glu | 1655 Asn | | G1 | T | | 1660 | | | | | 1665 | | - | | |
| 161 | Jiu | 1670 | File | GIU | гуѕ | ьys | Ile | Asn | Tyr | Arg | | | Asn | Lys | Ala | |
| | Tvr | | | Gln | Δ1 - | Dha i | 1675 | *** | | _ | _ | 1680 | | | | |
| 165 | - | 1685 | | J.11 | чта | rne . | rnr 1690 | HIS | Ala | Ser | | | Tyr | Asn | Thr | |
| | | | Asp | Cvs | Tvr | Gln : | TO30 | Len | C1 | Dh - | T | 1695 Gly | _ | | | |
| | | | | -1~ | -1- | J-11 1 | 119 | ∈u | GIU | rne | Leu (| GTA . | Asp | Ala | Ile | |
| | | | | | | | | | | | | | | | | |

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/11/2007 PATENT APPLICATION: US/10/567,731 TIME: 10:56:50

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\01112007\J567731.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:7; Line(s) 1013
Seq#:8; Line(s) 1025

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:14,15,16,17,18,19,20,21,22,23,24,25,26,27

VERIFICATION SUMMARY

DATE: 01/11/2007 TIME: 10:56:50

PATENT APPLICATION: US/10/567,731

Input Set : A:\Sequence Listing.txt Output Set: N:\CRF4\01112007\J567731.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date